



Love of Learning, Opportunity, Resilience, Respect 2024 - 2025 Year 10 Curriculum Overview

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Art & Photography	Art & Photography – Skills workshops	Mind mapping and mood board exploration of the personal response to the theme; ‘Reflections ...’	Artist / photographer study	Artist / photographer study	End of year final piece planning	Realisation of the ‘development piece’
	Skills: Exploring and recording ideas. Exploring media, techniques, and processes	Skills: Exploring and recording of ideas and observations	Skills: Practical and written analysis. Interpretation and development of sources.	Skills: Practical and written analysis. Interpretation and development of sources.	Skills: Synthesis of learning. experimenting, reviewing, and refining	Skills: Realisation of intentions.
Biology	Plant Organisation and Bioenergetics: photosynthesis	Bioenergetics: Photosynthesis and Respiration	Bioenergetics: Respiration and Metabolism, Infection and Response	Infection and Response	Ecology: Ecosystems, energy flow, energy efficiency	Ecology: Biodiversity and Conservation
Business Studies	1.1 Enterprise and entrepreneurship <ul style="list-style-type: none"> The dynamic nature of business Risk and reward The role of business enterprise 	1.2 Spotting a business opportunity <ul style="list-style-type: none"> Customer needs Market research Market segmentation The competitive environment	1.3 Putting a business idea into practice. <ul style="list-style-type: none"> Business aims and objectives. Business revenues, costs, and profits Cash and cash flow Sources of business finance 	1.4 Making a business effective. <ul style="list-style-type: none"> The options for start-up and small businesses Business location The marketing mix Business plans	1.5 External influences on business <ul style="list-style-type: none"> Business stakeholders Technology and business Legislation and business The economy and business External influences 	Revision - Theme 1 End of year examination 2.1 Growing a Business Business growth Changes in business objectives
Chemistry	Quantitative Chemistry	Quantitative Chemistry	Chemical Changes	Chemical Changes/ Energy Changes	Rate of Reaction	Equilibrium
Computing [Core]	Idea Award Online Safety – Recap Microsoft Office Skills	Idea Award Microsoft Office Skills	Idea Award Microsoft Office Skills Databases	Idea Award Ethical and Cultural Issues Environmental Issues	Idea Award Web Page Design	Idea Award Exam Revision



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	Spreadsheet Modelling	Spreadsheet Modelling and Graphs		PowerPoint Skills		
Computing	Four Stage Model Input and Output Devices Hardware / Software Computer Systems and Architecture Data Representation Memory and Storage Data Storage Capacities	Python Programming Data Types Repetition / Recursion Networking Algorithms Systems Security	Systems Software Operating Systems Utility Software Applications Software Ethical, Legal, Cultural and Environmental Issues	Pseudocode and Flowcharts Python programming Techniques Boolean Logic and Gates	Searching and Sorting and implementation in Python Revision and Exam techniques	The Internet Wired and Wireless networks
Design and Technology	Past and present designers Design strategies New and emerging technologies	Mechanics Timbers	Energy Electronics systems Textiles	Industry Culture New and emerging technologies Stock forms	Specialist content	NEA Introduction
English Language	Introduction to paper 1 and Assessment Objectives	Paper 1 skills reading and writing	Paper 1 skills reading and writing	Paper 1 skills reading and writing	Paper 1 skills reading and writing	Consolidation of Exam techniques
English Literature	Literary Modern Text Boys Don't Cry	Literary Modern Text Boys Don't Cry	Shakespeare Macbeth	Shakespeare Macbeth	Practice exam techniques and revision	Consolidation of Exam techniques
Food	Fruits and vegetables	Health and Nutrients	Health and Nutrients	Food characteristics, cooking foods, processing and preserving	Health, nutrients and provenience	Food safety and food security
French	Tu as du temps à perdre ? : Online activities, staying active, TV/Film, past & future plans	Mon clan, ma tribu : weekend routine, friendship, descriptions, role models, celebrations	Ma vie scolaire : subjects, rules, school progress, primary school, languages	En Pleine Forme : meals, mental health, healthy/unhealthy lifestyles	En Pleine Forme : meals, mental health, healthy/unhealthy lifestyles AND Numéro vacances : ideal holidays, holiday activities, festivals, accommodation	Numéro vacances : ideal holidays, holiday activities, festivals, accommodation & EOY Exams



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Geography	Rivers GCSE FW trip 19-20/09/24	Urban	Urban/coasts	Coasts/Ecosystems	Ecosystems- Hot deserts	
History	American West	Anglo-Saxons and Normans	Anglo-Saxons and Normans	Crime and Punishment	Crime and Punishment	Historic Environment: Whitechapel
Maths	<p>Recap all transformations</p> <p>Transform shapes in 2D – enlarge using positive, negative and fractional scale factors.</p> <p>Combine Transformations and describe the overall transformation.</p> <p>Factorising quadratic expressions with positive coefficients</p> <p>Factorising quadratic expressions with negative coefficients</p> <p>The difference of two squares</p> <p>Change the subject of a formula including when the required unknown occurs twice.</p> <p>Draw Graphs using the gradient-intercept method and using substitution.</p> <p>Find the gradient of a straight line & draw a line with a given gradient.</p>	<p>Find the equation of a line using its gradient and intercept.</p> <p>Find the equation of a line given two points.</p> <p>Using conversion graphs for money or units.</p> <p>Use straight line graphs to find formulae</p> <p>Draw linear graphs parallel or perpendicular to each other or find their equation from a graph.</p> <p>Calculate the area of a parallelogram and trapezium, particularly in context.</p> <p>Calculate the perimeter and area of a circle, and use this in context.</p> <p>Calculate the area of a sector</p> <p>Find the volume and surface area of a prism, including a cylinder</p> <p>Calculate the volume of a pyramid</p>	<p>Use mutually exclusive and exhaustive outcomes.</p> <p>Use two-way tables to calculate a probability.</p> <p>Use Venn diagrams to solve probability questions and know correct symbology.</p> <p>Use laws of indices when multiplying, dividing and brackets with powers.</p> <p>Work with negative powers.</p> <p>Working with fractional powers</p> <p>Convert between standard form and decimal form.</p> <p>Calculate using numbers in standard form.</p> <p>Simplify and calculate with surds, including expanding single and double brackets</p>	<p>Rationalise a denominator</p> <p>Solve a simple linear inequality and represent it on a number line.</p> <p>Show inequalities on a graph and find regions which satisfy more than one inequality.</p> <p>Convert terminal decimals to fractions and vice versa.</p> <p>Convert fractions to recurring decimals and vice versa (using the algebraic method).</p>	<p>Find the lower and upper bounds/limits for that have been rounded to a given degree of accuracy.</p> <p>Solve problems involving combinations</p> <p>Use limits within calculations, particularly in a given context.</p> <p>Plot quadratic, cubic, reciprocal and exponential graphs using graph paper.</p> <p>Recognise the shapes and equations of graphs in order to pair the graph with its equation.</p> <p>Solve quadratic equations using factorisation.</p> <p>Complete the square and use this to solve equations.</p> <p>Know and identify the turning point of a quadratic curve.</p>	<p>Solve simultaneous linear equations in two variables using the elimination method.</p> <p>Solve simultaneous equations using the substitution method. [Sets 1 & 2]</p> <p>Solve simultaneous equations using a graphical method where one is linear and one is non-linear.</p> <p>Solve linear and non-linear equations simultaneously algebraically.</p> <p>Solve quadratic inequalities.</p>



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	Draw graphs using the cover up method. Find the equation of a line from its graph.	Calculate the volume and surface area of a cone Calculate the volume and surface area of a sphere. Know how to calculate experimental probability/relative frequencies. Predict the expected number of successful outcomes when given a probability.			Solving quadratic equations using the quadratic formula.	
Music	Music theory – reading music, keys and intervals Terminology Composition –rhythm and melodic devices Performance - Solo Performance	Music Theory – chords and cadences Composition – writing melodies and chords (Classical style) Set Work: Queen	Set Work: Release Composition – Song writing Performance - ensemble	Set work: Esperanza Spalding Composition – accompaniment ideas and writing for instruments Performance - ensemble	Set Work: Defying Gravity Composition – using musical elements to write for different moods Performance – solo and ensemble	Set Work: Star Wars Y10 Exams Performance – Y10 Exam Composition – Free composition
PE [Core]	Volleyball	Rugby	Handball	Netball	Athletics / Rounders	Tennis / Cricket
PE Practical 1 lesson per fortnight	Musculo Skeletal Health and wellbeing Somatotypes Netball	Musculo Skeletal Health and wellbeing Somatotypes Netball	Musculo Skeletal Health and wellbeing Somatotypes Netball	Musculo Skeletal Health and wellbeing Somatotypes Netball	Components of fitness Ethics Practical theory paper 1	Coursework Part 1 – analysis Arousal and Aggression Practical theory paper 1
Tuesday lunch time – Badminton club Friday evening - 3.35 – 4.45pm Netball Wednesday evening 3.35 – 4.45pm						
Physics	Atomic structure	Radioactivity	Forces and motion	Forces and Newton's Laws	Forces in action	Waves 1



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PRE [Core]	Multi-culturalism and Diversity	Matters of human life and death	Issues of non-human life and death	Multi-culturalism and Diversity	Matters of human life and death	Issues of non-human life and death
RS	Relationship and families	Christian (beliefs)		Christian (practices)		Peace and Conflict
Sociology	The Sociological approach	Research methods	Families	Families	Education	Crime
Spanish	Diviértete: online life, sports & hobbies, past & future plans	Viajes : travel plans, festivals, holidays descriptions in 3 time frames	Mi gente, mi mundo: describing people, celebrities, friendships & relationships, identity, problems & advice, celebrations	Mi estilo de vida: daily routine, mealtimes, habits, illness/injury, health & wellbeing	Mi estilo de vida: daily routine, mealtimes, habits, illness/injury, health & wellbeing AND A clase: school day, subjects, school changes, students & teachers, school trips	A clase: school day, subjects, school changes, , students & teachers, school trips & EOY Exams

NOTE: The timings may vary due to the needs of individual students and classes, but it is envisaged that all classes will cover the curriculum above.